

DERWENT ABSTRACT FOR: JP 04-028740 (Mitsubishi), published 31 Jan1992:
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ACCESSION NUMBER: 1992-085307 [11] WPIINDEX

DOC. NO. CPI: C1992-039267

TITLE: Prepn. of thermoplastic resin compsn. - prep'd. by
blending phenylene ether resin etc. with specified
polymers and then with olefin resin.

DERWENT CLASS: A12 A17 A25

PATENT ASSIGNEE(S): (MITP) MITSUBISHI PETROCHEMICAL CO LTD; (TOYT) TOYOTA
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COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
JP 04028740	A	19920131 (199211)*		14	<--

APPLICATION DETAILS:

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AB JP 04028740 A UPAB: 19931006

The resin compsn. comprises (A), (B), (C) and (D) and is prep'd. by
blending component (B) or a mixt. of component (B) and at least one kind
of component (C) or (D) to obtain compsn. (I) in the 1st step, and then
blending compsn. (I) with component (A) and the remaining components in
the 2nd step. In the method component (A) = polyolefin resin, 30-78 wt.%,
component (B) = polyphenylene-ether resin, 20-68 wt.%, component (C) = a
polymer having both alkenyl aromatic cpd. polymer chain (C1) and aliphatic
hydrocarbon polymer chain (C2) in one molecule and dynamic shearing
modulus at 23 deg.C of 3×10 power 8 dyne/cm² or higher, 2-50 wt.%,
component (D) is rubberlike polymer having dynamic shearing modulus at 23
deg.C G' of 2×10 power 8 dyne/cm² or higher : 1-50 pts.wt. per 100
pts.wt. of (A), (B) plus (C).

(A) is pref. isostatic polypropylene. (C) is pref. partially
hydrogenated alkenyl cpd.-conjugated diene block copolymer such as
hydrogenated styrene-butadiene triblock copolymer. (D) is pref. maleic
anhydride grafted propylene-ethylene random copolymer or maleic anhydride
grafted 1-butene-ethylene random copolymer.

USE/ADVANTAGE - Process gives a resin compsn. having good mechanical
properties, esp. a good balance between falling wt. impact strength and
rigidity.

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